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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/822,695	04/13/2004	Hajime Kiyokawa	53643-016	2915
75	7590 01/17/2006		EXAMINER	
MCDERMOTT, WILL & EMERY			ABRAMOWITZ, HOWARD E	
600 13th Street, Washington, D			ART UNIT PAPER NUMBER 1762	
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		DATE MAILED: 01/17/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)	
Office Action Summary		10/822,695	KIYOKAWA ET AL.	
		Examiner	Art Unit	
		Howard E. Abramowitz	1762	
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	orrespondence address	
A SH WHIC - Exter after - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANSIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. In period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).	
Status				
2a)□	Responsive to communication(s) filed on <u>13 Ap</u> This action is FINAL . 2b) This Since this application is in condition for allower closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro		
Dispositi	on of Claims			
5) □ 6) ⋈ 7) □ 8) □ Applicati 9) □ 10) ⋈	Claim(s) 1-6 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) 1-6 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or on Papers The specification is objected to by the Examine The drawing(s) filed on 13 April 2004 is/are: a) Applicant may not request that any objection to the of Replacement drawing sheet(s) including the correction of the other contents.	r election requirement. r. ⊠ accepted or b) objected to liderawing(s) be held in abeyance. See ion is required if the drawing(s) is objected to liderawing(s) is objected to liderawing(s) is objected in abeyance.	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).	
Priority u	ınder 35 U.S.C. § 119			
12)⊠ _a)[Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau See the attached detailed Office action for a list	s have been received. s have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage	
2) 🔲 Notic 3) 🔯 Inforr	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date 4/13/04.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:		

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 2, 4-6 are rejected under 35 U.S.C. 102(b) as being anticipated by Pearlstein et al. (US Patent No. 3,754,939).

Referring to claim 1, Pearlstein et al. discloses applying a coating solution comprising palladium chloride and hydrochloric acid and applying an electroless plating to the surface of a substrate (particle) yielding conductive particles having a palladium alloy coating (table II, column 1 lines 12-24, column 4 lines 39-52).

Referring to claim 2, Pearlstein discloses that there is 2 g/l of PdCl₂ (table II).

Referring to claim 4, Pearlstein discloses that the substrate can be copper (column 4 lines 39-52).

Referring to claim 5, Pearlstein discloses that the substrate can be glass this would be SiO₂ (column 4 lines 60-64).

Referring to claim 6, Pearlstein discloses that the plated coating comprises Ni-P (table II).

Claim Rejections - 35 USC § 103

Application/Control Number: 10/822,695

Art Unit: 1762

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Pearlstein et al. in view of Chakraborty et al. (US Patent No. 5,525,570).

Referring to this claim Pearlstein et al. discloses all of the features of this claim as discussed above. It also discloses that the use of palladium alloy coated materials is known for use in catalytic chemical processing. It does not teach however that the substrates should be porous. However, Chakraborty et al. teaches that the catalyst layer should be porous because external roughness increases the surface area of the particles which increases the area of the particle available for reaction (column 2 lines 20-52). Accordingly, it would have been obvious to one of ordinary skill in the art at the

Application/Control Number: 10/822,695

Art Unit: 1762

time the invention was made to modify Pearlstein et al. to use porous particles as suggested by Chakraborty et al. with an expectation that the porous particles will form coatings with significantly more surface area with which the catalytic reaction can occur on.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Howard E. Abramowitz whose telephone number is 571-272-8557. The examiner can normally be reached on monday-friday 9:00-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Timothy H. Meeks can be reached on 571-272-1423. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Page 4

Application/Control Number: 10/822,695

Art Unit: 1762

Page 5